

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Goodman et al.

Group Art Unit: 1644

Serial No. 08/971,172

Examiner: S. Turner

Filed: November 14, 1997

Attorney Docket No. B98-006-2

For: *Robo: A Novel Family of Polypeptides and Nucleic Acids*

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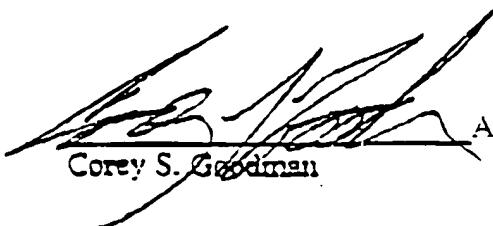
SUPPLEMENTAL DECLARATION UNDER 37 CFR 1.131

Assistant Commissioner for Patents
Washington D.C. 20231

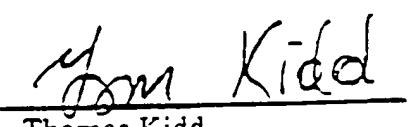
Dear Commissioner:

1. We are coinventors of the subject patent application.
2. Attached is a photocopy of a 5 page alignment including our U88183 sequence, which is identical to SEQ ID NO:6 of the subject patent application. We determined this U88183 sequence and prepared the alignment prior to April 1997. This work was performed in the United States.

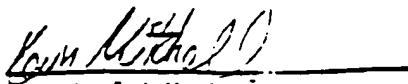
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Title §1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.


Corey S. Goodman

Aug 30, 2000


Thomas Kidd

Aug 30, 2000


Kevin J. Mitchell

Aug 30, 2000


Guy Tetz

Aug 30, 2000

Alignment Report of Untitled, using Clustal method with PAM250 residue weight table.

	<u>S A S L T V E D H T S N A Q E V R M P D P S N F P S S P T Q</u>	Consensus #1
	550 560 570	
535	<u>S A S L T V E D H T S N A Q F V R M P D P S N F P S S P T Q</u>	U88183 composite pep
537	<u>S A S L T V E D H T S N A O F V R M P D P S N F P S S P T Q</u>	W-Rabo pep
	<u>P I I V N V T D T E V E L H W N A P S T S G A G P I T G Y I</u>	Consensus #1
	580 590 600	
565	<u>P I I V N V T D T E V E L H W N A P S T S G A G P I T G Y I</u>	U88183 composite pep
537	<u>P I I V N V T D T E V E L H W N A P S T S G A G P I T G Y I</u>	W-Rabo pep
	<u>I Q Y Y S P D L G Q T W F N I P D Y V A S T E Y R I K G L K</u>	Consensus #1
	610 620 630	
595	<u>I Q Y Y S P D L G Q T W F N I P D Y V A S T E Y R I K G L K</u>	U88183 composite pep
567	<u>I Q Y Y S P D L G Q T W F N I P D Y V A S T E Y R I K G L K</u>	W-Rabo pep
	<u>P S H S Y M F V I R A E N E K G I G T P S V S S A L V T T S</u>	Consensus #1
	640 650 660	
625	<u>P S H S Y M F V I R A E N E K G I G T P S V S S A L V T T S</u>	U88183 composite pep
597	<u>P S H S Y M F V I R A E N E K G I G T P S V S S A L V T T S</u>	W-Rabo pep
	<u>K P A A Q V A L S D K N K M D M A I A E K R L T S E Q L I K</u>	Consensus #1
	670 680 690	
655	<u>K P A A Q V A L S D K N K M D M A I A E K R L T S E Q L I K</u>	U88183 composite pep
627	<u>K P A A Q V A L S D K N K M D M A I A E K R L T S E Q L I K</u>	W-Rabo pep
	<u>L E E V K T I N S T A V R L F W K K R K L E E L I D G Y Y I</u>	Consensus #1
	700 710 720	
685	<u>L E E V K T I N S T A V R L F W K K R K L E E L I D G Y Y I</u>	U88183 composite pep
657	<u>L E E V K T I N S T A V R L F W K K R K L E E L I D G Y Y I</u>	W-Rabo pep
	<u>K W R G P P R T N D N Q Y V N V T S P S T E N Y V V S N L M</u>	Consensus #1
	730 740 750	
715	<u>K W R G P P R T N D N Q Y V N V T S P S T E N Y V V S N L M</u>	U88183 composite pep
687	<u>K W R G P P R T N D N Q Y V N V T S P S T E N Y V V S N L M</u>	W-Rabo pep
	<u>P F T N Y E F F V I P Y H S G V H S I H G A P S N S M D V L</u>	Consensus #1
	760 770 780	
745	<u>P F T N Y E F F V I P Y H S G V H S I H G A P S N S M D V L</u>	U88183 composite pep
717	<u>P F T N Y E F F V I P Y H S G V H S I H G A P S N S M D V L</u>	W-Rabo pep
	<u>T A E A P P S L P P E D V R I R M L N L T T L R I S W K A P</u>	Consensus #1
	790 800 810	
775	<u>T A E A P P S L P P E D V R I R M L N L T T L R I S W K A P</u>	U88183 composite pep
747	<u>T A E A P P S L P P E D V R I R M L N L T T L R I S W K A P</u>	W-Rabo pep

KADGINGILKGFOIVIVGQAPNNNRNITTN Consensus #1

820 830 840

805 KADGINGILKGFOIVIVGQAPNNNRNITTN U88183 composite pep
777 KADGINGILKGFOIVIVGQAPNNNRNITTN W-Robo pep

ERAASVTLFHLVTGMTYKIRVAARSNGGVG Consensus #1

850 860 870

835 ERAASVTLFHLVTGMTYKIRVAARSNGGVG U88183 composite pep
807 ERAASVTLFHLVTGMTYKIRVAARSNGGVG W-Robo pep

VSHGTTSEVIMNQDTLEKHLAAQQENESFLY Consensus #1

880 890 900

865 VSHGTTSEVIMNQDTLEKHLAAQQENESFLY U88183 composite pep
837 VSHGTTSEVIMNQDTLEKHLAAQQENESFLY W-Robo pep

GLINKSHVPVIVIVAILIIFVVIIIAAYCYW Consensus #1

910 920 930

895 GLINKSHVPVIVIVAILIIFVVIIIAAYCYW U88183 composite pep
867 GLINKSHVPVIVIVAILIIFVVIIIAAYCYW W-Robo pep

RNSRNSDGDKDRSFIKINDGSVHMASNNLWD Consensus #1

940 950 960

925 RNSRNSDGDKDRSFIKINDGSVHMASNNLWD U88183 composite pep
897 RNSRNSDGDKDRSFIKINDGSVHMASNNLWD W-Robo pep

VAQNPQNQNPMYNTAGRMTMNNRNGQALYSL Consensus #1

970 980 990

955 VAQNPQNQNPMYNTAGRMTMNNRNGQALYSL U88183 composite pep
927 VAQNPQNQNPMYNTAGRMTMNNRNGQALYSL W-Robo pep

TPNAQDEFNNCDCDDYSGTMHRPGSSEHHYHYA Consensus #1

1000 1010 1020

985 TPNAQDEFNNCDCDDYSGTMHRPGSSEHHYHYA U88183 composite pep
957 TPNAQDEFNNCDCDDYSGTMHRPGSSEHHYHYA W-Robo pep

CLTGGPGNAMSTFYGNQYHDDPSPYATTTL Consensus #1

1030 1040 1050

1015 CLTGGPGNAMSTFYGNQYHDDPSPYATTTL U88183 composite pep
987 CLTGGPGNAMSTFYGNQYHDDPSPYATTTL W-Robo pep

VLSNQQPAWLNDKMLRAPAMPVNPPPEPP Consensus #1

1060 1070 1080

1045 VLSNQQPAWLNDKMLRAPAMPVNPPPEPP U88183 composite pep
1017 VLSNQQPAWLNDKMLRAPAMPVNPPPEPP W-Robo pep

Alignment Report of Untitled, using Clustal method with PAM250 residue weight table.

ARYADHTAGRGSRSSRASDGRGTLNGLHH Consensus #1

1090 1100 1110

1075 ARYADHTAGRGSRSSRASDGRGTLNGLHH U88183 composite pep
1047 ARYADHTAGRGSRSSRASDGRGTLNGLHH W-Rabo pep

RTSGSQRSDDSPPHTDVSYVOLHSSDGTGSS Consensus #1

1120 1130 1140

1105 RTSGSQRSDDSPPHTDVSYVOLHSSDGTGSS U88183 composite pep
1077 RTSGSQRSDDSPPHTDVSYVOLHSSDGTGSS W-Rabo pep

KERTGERRTPPNKTLMDFIPIPPPSNPPPG Consensus #1

1150 1160 1170

1135 KERTGERRTPPNKTLMDFIPIPPPSNPPPG U88183 composite pep
1107 KERTGERRTPPNKTLMDFIPIPPPSNPPPG W-Rabo pep

GHVYD....TATRRQLNRGSTPREDTYDSV Consensus #1

1180 1190 1200

1165 GHVYD....TATRRQLNRGSTPREDTYDSV U88183 composite pep
1137 GHVYDDIFQTATRRQLNRGSTPREDTYDSV W-Rabo pep

SDGAFARVDVNARPTSRRNRLGGRPLKGKR Consensus #1

1210 1220 1230

1191 SDGAFARVDVNARPTSRRNRLGGRPLKGKR U88183 composite pep
1167 SDGAFARVDVNARPTSRRNRLGGRPLKGKR W-Rabo pep

DDDSQRSSLMMDDDGGSSEADGENSEGDRV Consensus #1

1240 1250 1260

1221 DDDSQRSSLMMDDDGGSSEADGENSEGDRV U88183 composite pep
1197 DDDSQRSSLMMDDDGGSSEADGENSEGDRV W-Rabo pep

RGGVRKAVPRMGISASTLAHSCYGTNGTAQ Consensus #1

1270 1280 1290

1251 RGGVRKAVPRMGISASTLAHSCYGTNGTAQ U88183 composite pep
1227 RGGVRKAVPRMGISASTLAHSCYGTNGTAQ W-Rabo pep

RFRSIPRNNGIVTQEQT Consensus #1

1300

1281 RFRSIPRNNGIVTQEQT - T U88183 composite pep
1257 RFRSIPRNNGIVTQEQT . W-Rabo pep

Consensus 'Consensus #1': When all match the residue of the Consensus show the residue of the Consensus, otherwise show '...'.

Decoration 'Decoration #1': Shade (with solid black) residues that match the consensus named 'Consensus #1' exactly.